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(54) Transmission power control scheme for OFDM communication links

(57) A power control scheme for an OFDM communication link is provided comprising a method, a receiving device and a transmitting device for controlling the transmitting power of a wireless OFDM communication link, wherein two or more blocks in the time-frequency grid of the OFDM system are assigned to said communication link and wherein each block can hop across the time-frequency grid of the OFDM system. The power control scheme comprises the measuring of the quality

of the signals received from a transmitter by a receiver, classifying the signal's quality, sending power control information from the receiver to the transmitter based on the result of the classification of the signal quality, and adjusting the transmitting power of the transmitter according to the power control information, wherein the power control information sent to adjust the transmitting power of the transmitter contains separate information for each block assigned to the communication link.

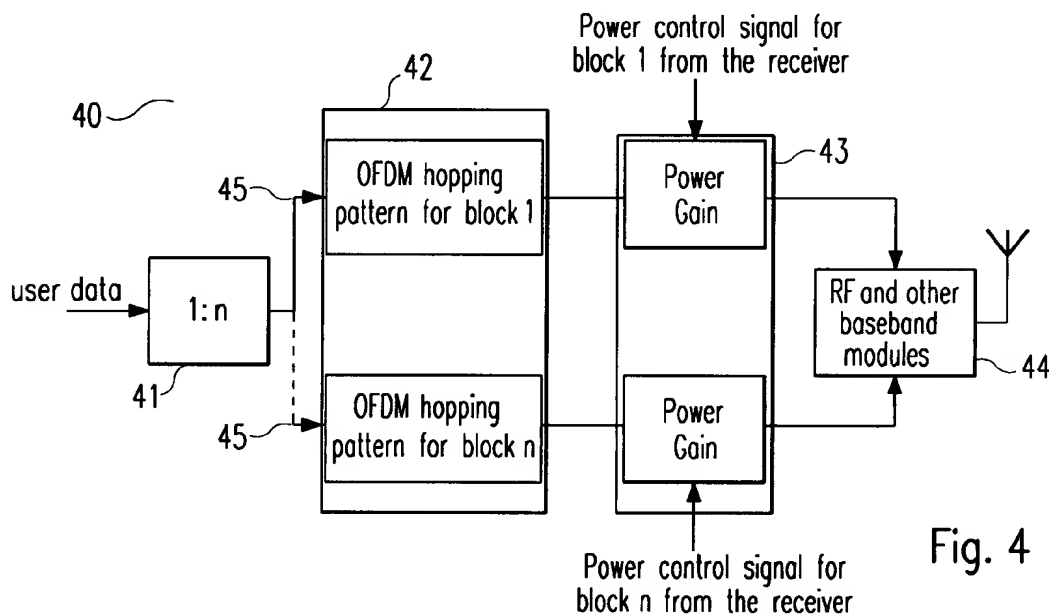


Fig. 4